

**H.R. 5656, The Energy Research, Development,  
Demonstration, and Commercial Application Act of 2006**  
(introduced by Mrs. Biggert for herself, Mr. Boehlert, Mr. Hall, Mr. Smith of  
Texas, Mr. McCaul, Mr. Calvert, Mr. Ehlers, Mr. Inglis, and Mr. Wamp)

- This bill authorizes the President's *Advanced Energy Initiative*, a research and development (R&D) and technology demonstration initiative at the Department of Energy (DOE) to develop advanced clean energy technologies. The bill goes further and authorizes a plug-in hybrid electric vehicle R&D and demonstration program, a solar photovoltaic R&D and demonstration program, a cooperative extension program for energy technology and energy efficiency information, a program to provide incentives to design and construct energy efficient buildings, and energy technology and energy efficiency education and outreach programs.

Specifically, the bill:

- Endorses the President's vision of:
  - a near-zero emissions coal-fired power plant and stipulates environmental performance requirements for the FutureGen demonstration facility;
  - an advanced nuclear power technology R&D program, but slows development of some technologies proposed under the Global Nuclear Energy Partnership (GNEP) initiative until a more comprehensive R&D and demonstration plan is developed by DOE and reviewed by the National Academy of Sciences;
  - accelerated development of hybrid electric vehicles by authorizing research on advanced battery technology and an R&D and demonstration program for plug-in hybrid electric vehicles;
  - accelerated development of advanced solar photovoltaic power technology by authorizing photovoltaic R&D and demonstration;
  - accelerated development of advanced biofuel technologies by authorizing R&D and demonstration on ethanol production from cellulosic feedstocks;
- Establishes a cooperative extension program for energy and efficiency technologies;
- Provides incentives for the design and construction of energy efficient buildings; and
- Authorizes education and outreach relating to energy technologies that improve energy supply and improve the efficiency of energy utilization.

The bill is endorsed, in whole or in part, by:

Edison Electric Institute • Dow Corning • DuPont • Johnson Controls, Inc. • American Honda Motor Company • Alliance to Save Energy • American Chemical Society • American Council for an Energy-Efficient Economy • American Institute of Architects • American Public Power Association • Association of American Universities • National Association of State Universities and Land-Grant Colleges • National Rural Electric Cooperative Association • Local Governments for Sustainability